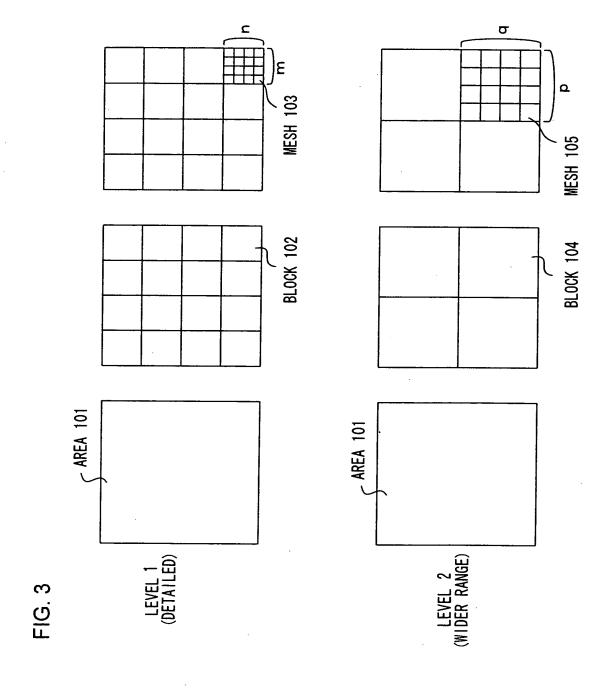


:IG. 2



N.

FIG.4

EXAMPLE OF CORE MESH FORMATION AND OVERLAP MESH ARRANGEMENT

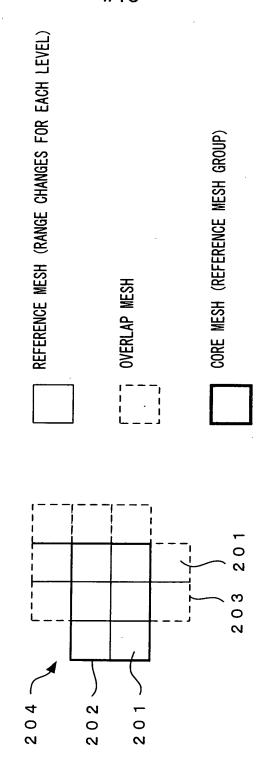
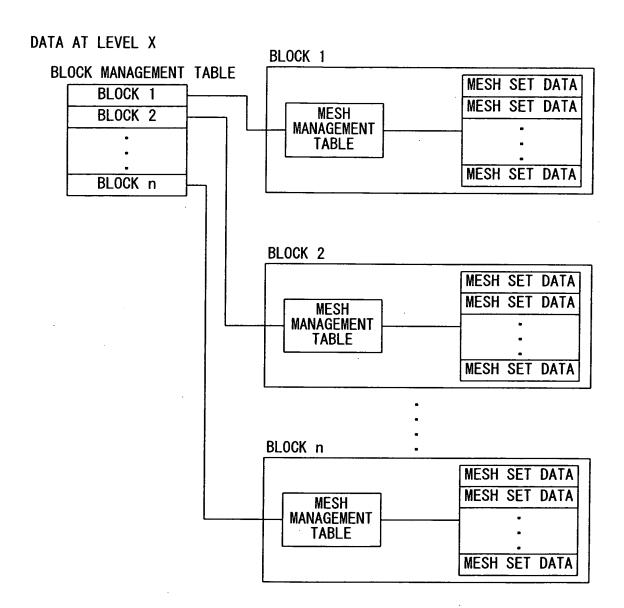


FIG.5



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FIG.6

### BLOCK MANAGEMENT TABLE AT LEVEL 1

· .			
DATA #		DATA NAME	
1	·-	BLOCK MANAGEMENT TABLE SIZE	
2		NUMBER OF SETS OF BLOCK MANAGEMENT INFORMATION	
3	BLOCK 1	UPPER END LATITUDE (PRIMARY LATITUDE MESH CODE)	
4		LOWER END LATITUDE (PRIMARY LATITUDE MESH CODE)	
5		LEFT END LATITUDE (PRIMARY LONGITUDE MESH CODE)	
6		RIGHT END LATITUDE (PRIMARY LONGITUDE MESH CODE)	
7		POINTER TO MESH MANAGEMENT TABLE	
8	BLOCK 2	UPPER END LATITUDE (PRIMARY LATITUDE MESH CODE)	
9		LOWER END LATITUDE (PRIMARY LATITUDE MESH CODE)	
10		LEFT END LATITUDE (PRIMARY LONGITUDE MESH CODE)	
. 11		RIGHT END LATITUDE (PRIMARY LONGITUDE MESH CODE)	
12		POINTER TO MESH MANAGEMENT TABLE	
13	BLOCK 3	UPPER END LATITUDE (PRIMARY LATITUDE MESH CODE)	
14		LOWER END LATITUDE (PRIMARY LATITUDE MESH CODE)	
15		LEFT END LATITUDE (PRIMARY LONGITUDE MESH CODE)	
16		RIGHT END LATITUDE (PRIMARY LONGITUDE MESH CODE)	
17		POINTER TO MESH MANAGEMENT TABLE	
18			
	BLOCK 16	UPPER END LATITUDE (PRIMARY LATITUDE MESH CODE)	
20		LOWER END LATITUDE (PRIMARY LATITUDE MESH CODE)	
21		LEFT END LATITUDE (PRIMARY LONGITUDE MESH CODE)	
22		RIGHT END LATITUDE (PRIMARY LONGITUDE MESH CODE)	
23		POINTER TO MESH MANAGEMENT TABLE	

## FIG.7

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### MESH MANAGEMENT TABLE

	1_	MESH MANAGEMENT TABLE SIZE
L	2	NUMBER OF REFERENCE MESHES MANAGED ALONG LATITUDINAL DIRECTION
		NUMBER OF REFERENCE MESHES MANAGED ALONG LONGITUDINAL DIRECTION
		LOWER END LATITUDE (PRIMARY LATITUDE MESH CODE)
		LEFT END LONGITUDE (FIRST ORDER MESH CODE)
	- 1	FILE MANAGEMENT TABLE CLASSIFICATION
		FILE MANAGEMENT TABLE

# FIG.8

# FILE MANAGEMENT TABLE CLASSIFICATION 1 (EXAMPLE)

1	7	MECH	(MESH SET) DATA START POINTER
2		MILOIT	RELATIVE NUMBER ASSIGNED TO LOWER LEFT REFERENCE MESH IN CORE
<u> </u>	-		MESH 4 Dytes
3			NUMBER OF REFERENCE MESHES SET ALONG LATITUDINAL DIRECTION WITHIN CORE MESH 1 byte
4			NUMBER OF REFERENCE MESHES SET ALONG LONGITUDINAL DIRECTION WITHIN CORE MESH 1 byte
5		LEFT	LATITUDE OF MESH SET AT LOWER END (RELATIVE NUMBER OF REFERENCE MESHES COUNTED FROM LOWER LEFT REFERENCE MESH IN CORE MESH) 1 byte
6		END	LONGITUDE OF MESH SET AT LEFT END (RELATIVE NUMBER OF REFERENCE MESHES COUNTED FROM LOWER LEFT REFERENCE MESH IN CORE MESH)  1 byte
7			NUMBER OF REFERENCE MESHES SET ALONG LATITUDINAL DIRECTION WITHIN MESH SET (RECTANGULAR AREA SIZE) 1 byte
8			NUMBER OF REFERENCE MESHES SET ALONG LONGITUDINAL DIRECTION WITHIN MESH SET (RECTANGULAR AREA SIZE) 1 byte
9			STORAGE LOCATION
	LOWER-		CONNECTION / PARTIAL RESTRICTION MESH SET DATA SIZE LEVEL CORRESPONDENCE MESH SET DATA SIZE
12	END		RELATIVE NUMBER ASSIGNED TO LOWER LEFT REFERENCE MESH IN CORE MESH 4 bytes
13			NUMBER OF REFERENCE MESHES SET ALONG LATITUDINAL DIRECTION WITHIN CORE MESH 1 byte
14			NUMBER OF REFERENCE MESHES SET ALONG LONGITUDINAL DIRECTION WITHIN CORE MESH 1 byte
15		ADJA-	LATITUDE OF MESH SET AT LOWER END (RELATIVE NUMBER OF REFERENCE MESHES COUNTED FROM LOWER LEFT REFERENCE MESH IN CORE MESH)  1 byte
16		CENT TO	LONGITUDE OF MESH SET AT LEFT END (RELATIVE NUMBER OF REFERENCE MESHES COUNTED FROM LOWER LEFT REFERENCE MESH IN CORE MESH)  1 byte
17		·	NUMBER OF REFERENCE MESHES SET ALONG LATITUDINAL DIRECTION WITHIN MESH SET (RECTANGULAR AREA SIZE) 1 byte
18			NUMBER OF REFERENCE MESHES SFT ALONG LONGITUDINAL DIRECTION
19			WITHIN MESH SET (RECTANGULAR AREA SIZE) 1 byte STORAGE LOCATION
20		,	CONNECTION / PARTIAL RESTRICTION MESH SET DATA SIZE
21			LEVEL CORRESPONDENCE MESH SET DATA SIZE
22		:	

### FIG.9

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### MESH SET DATA

1	NUMBER OF REFERENCE MESHES
2	OFFSETS TO AND SIZES OF REFERENCE MESH DATA
3	REFERENCE MESH DATA 1
	REFERENCE MESH DATA 2
5	REFERENCE MESH DATA 3
6	:
7	REFERENCE MESH DATA n

### FIG.10

### REFERENCE MESH DATA

1	MESH CODE
2	MESH IDENTIFICATION INFORMATION
3	CORE MESH IDENTIFICATION INFORMATION
4	ROUTE INFORMATION LIST IDENTIFICATION INFORMATION
5	OFFSET INFORMATION
L	CONNECTION DATA
7	PARTIAL RESTRICTION DATA

### FIG.11

## CONNECTION DATA PORTION

1	SUBJECT NODE INFORMATION 1
2	I TO STATE THE STATE OF THE STA
3	SUBJECT NODE INFORMATION 2
4	ADJACENT NODE INFORMATION 2
5	<u>:</u>
6	SUBJECT NODE INFORMATION n
7	ADJACENT NODE INFORMATION n

## FIG.12

## CONNECTION DATA PORTION (OVERLAP MESH)

	THE STATE OF THE CONTRACT OF THE	WEOTI/
1	SUBJECT NODE INFORMATION 1	SUBJECT NODE ID NO. =O INVALID NODE FLAG=OFF
2	ADJACENT NODE INFORMATION 1	
3	SUBJECT NODE INFORMATION 2	SUBJECT NODE ID NO. =1 INVALID NODE FLAG=OFF
4	ADJACENT NODE INFORMATION 2	TOTAL TENDENT FOR THE PROPERTY OF THE PROPERTY
5	SUBJECT NODE INFORMATION 3	SUBJECT NODE ID NO. =2 INVALID NODE FLAG=ON
6	SUBJECT NODE INFORMATION 4	SUBJECT NODE ID NO. = 3 INVALID NODE FLAG=ON
7	SUBJECT NODE INFORMATION 5	SUBJECT NODE ID NO. =4 INVALID NODE FLAG=OFF
8	ADJACENT NODE INFORMATION 5	THE ROLL I HAVE TO HODE I EAG-OFF
9		
10	2049	SUBJECT NODE ID NO. = 2048 INVALID NODE FLAG = OFF
11	ADJACENT NODE INFORMATION 2049	

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FIG.13

#### MESH SET DATA

1	NUMBER OF REFERENCE MESHES
2	OFFSETS TO AND SIZES OF REFERENCE MESH DATA
3	REFERENCE MESH DATA 1
4	REFERENCE MESH DATA 2
5	REFERENCE MESH DATA 3
6	
7	REFERENCE MESH DATA n

## FIG.14

## REFERENCE MESH DATA

1	MESH CODE
2	MESH IDENTIFICATION INFORMATION
3	CORE MESH IDENTIFICATION INFORMATION
1	OFFSET INFORMATION
5	LEVEL CORRESPONDENCE TABLE DATA

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### **FIG.15**

### LEVEL CORRESPONDENCE DATA PORTION

1	LEVEL CORRESPONDENCE DATA HEADER
	NUMBER OF CORRESPONDING LEVELS
3	CORRESPONDENCE INFORMATION 1
4	CORRESPONDENCE INFORMATION 2
5	CORRESPONDENCE INFORMATION 3
6	:
7	CORRESPONDENCE INFORMATION n

### FIG.16

#### CORRESPONDENCE INFORMATION

1	SUBJECT NODE CORRESPONDENCE INFORMATION
	ADJACENT NODE #1 INFORMATION
3	ADJACENT NODE #2 INFORMATION
4	ADJACENT NODE #3 INFORMATION
5	
6	ADJACENT NODE #m INFORMATION

# FIG.17

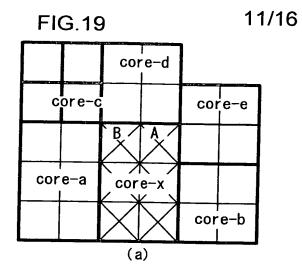
### SUBJECT NODE CORRESPONDENCE INFORMATION

1	NUMBER OF ADJACENT NODES
2	SUBJECT LEVEL INFORMATION (SUBJECT LEVEL NODE NUMBER)
3	LOWER-ORDER LEVEL INFORMATION 1
4	LOWER-ORDER LEVEL INFORMATION 2
5	:
6	LOWER-ORDER LEVEL INFORMATION j

#### **FIG.18**

#### ADJACENT NODE INFORMATION

1	SUBJECT LEVEL ADJACENCY INFORMATION		
2	LOWER-ORDER LEVEL ADJACENCY INFORMATION 1		
3	LOWER-ORDER LEVEL ADJACENCY INFORMATION 2		
4	:		
5	LOWER-ORDER LEVEL ADJACENCY INFORMATION k		



#### REFERENCE MESH DATA A

1	MESH CODE	
2	MESH IDENTIFICATION INFORMATION	CORE MESH or OVERLAP MESH
3	CORE MESH IDENTIFICATION INFORMATION	
4	ROUTE INFORMATION LIST IDENTIFICATION INFORMATION (UPPER SIDE MESH)	NO (core-d)
	ROUTE INFORMATION LIST IDENTIFICATION INFORMATION (LOWER SIDE MESH)	INULL (WITHIN SUBJECT CORE)
	ROUTE INFORMATION LIST IDENTIFICATION INFORMATION (LEFT SIDE MESH)	ROUTE INFORMATION LIST DATA: NULL (WITHIN SUBJECT CORE)
	ROUTE INFORMATION LIST IDENTIFICATION INFORMATION (RIGHT SIDE MESH)	ROUTE INFORMATION LIST DATA: YES (core-e)
5	OFFSET INFORMATION	
6	CONNECTION DATA	
7	PARTIAL RESTRICTION DATA	

(b)

### REFERENCE MESH DATA B

_		
1	MESH CODE	
2	MESH IDENTIFICATION INFORMATION	CORE MESH or OVERLAP MESH
3	CORE MESH IDENTIFICATION INFORMATION	
4	ROUTE INFORMATION LIST IDENTIFICATION INFORMATION (UPPER SIDE MESH)	INO (core-d)
	ROUTE INFORMATION LIST IDENTIFICATION INFORMATION (LOWER SIDE MESH)	INULL (WITHIN SUBJECT CORE)
	ROUTE INFORMATION LIST IDENTIFICATION INFORMATION (LEFT SIDE MESH)	YES (core-a)
	ROUTE INFORMATION LIST IDENTIFICATION INFORMATION (RIGHT SIDE MESH)	ROUTE INFORMATION LIST DATA: NULL (WITHIN SUBJECT CORE)
5	OFFSET INFORMATION	
6	CONNECTING AREA DATA	
7	PARTIAL RESTRICTION DATA	

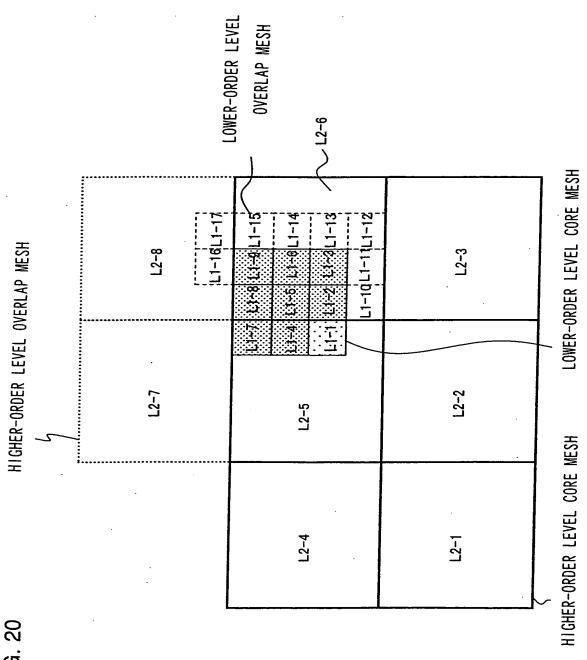
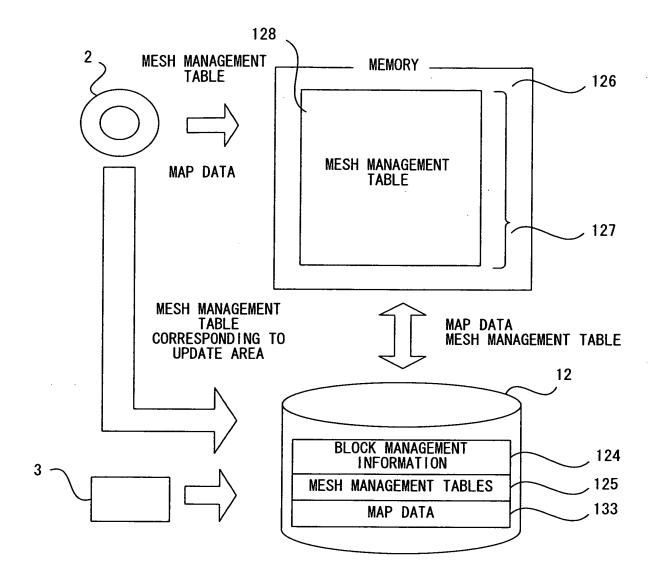


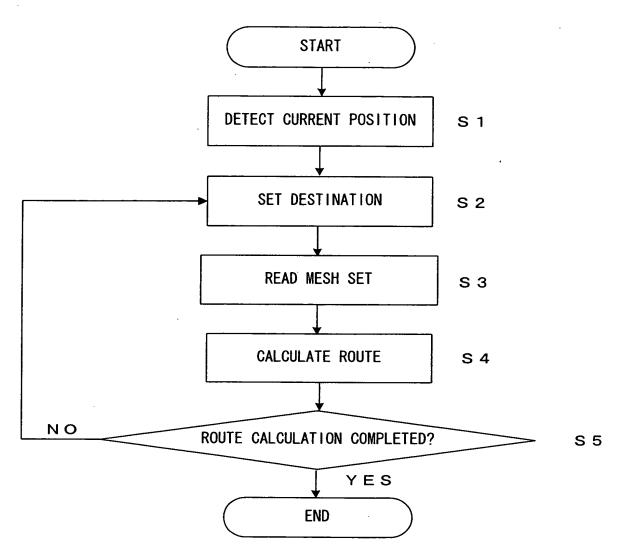
FIG. 20

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**FIG.21** 



**FIG.22** 



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FIG.23

